

STAT

7 July 1961

TO
FROMSubject: ECP LAC-112 - "INSTALL LARGER RELAY & CIRCUIT
BREAKER BOX"

The change as described in the ECP has been approved for FOG airplanes and the mockup on the first airplane is nearing completion. New drawings are nearly complete and approximately forty existing drawings are in the process of change.

The mock-up in the first airplane has proven the new design to provide the following advantages.

1. Greatly reduces the number of wires in the radio rack by relocating the E-1 terminal strips from the rack to locations on both sides of the Q-bay - forward of the radio rack. This also provides better access to the terminal strips and shorter wire runs.
2. Good access to all relays and other junction box components by use of hinged panels and doors.
3. Use of circuit breakers instead of fuses provide trip indication and eliminate the need of replacing fuses when failure occurs.
4. Improved grouping of circuit breakers; ie., inverter - emergency and normal; D.C. power; and alternator power. All circuit breakers have been moved from isolated clips, brackets, etc., in the radio rack and placed in the new circuit breaker panel.
5. The battery relay has been moved from the present undesirable location adjacent to the battery and under control cables to a position on an insulated panel adjacent to the reverse current relay. This arrangement affords improved accessibility and protection from damage by use of a removable plastic cover.
6. Removing the supporting structure for the AC voltage regulator and installing the regulator on top of the new junction box by use of a quickly removable plate, provides improved access to the equipment on bulkhead 319 in this area.

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It is important that this change be approved for all Project Aircraft in the near future so that parts can be procured and fabricated for all aircraft at the same time. Also, the circuit diagrams (approx. 30) will be changed to show the single configuration eliminating the confusion of showing both the new and old junction box; which will be the case if this ECP is not approved by Project.

The enclosed photos delineate the present configuration and the drawings are of the new configuration.

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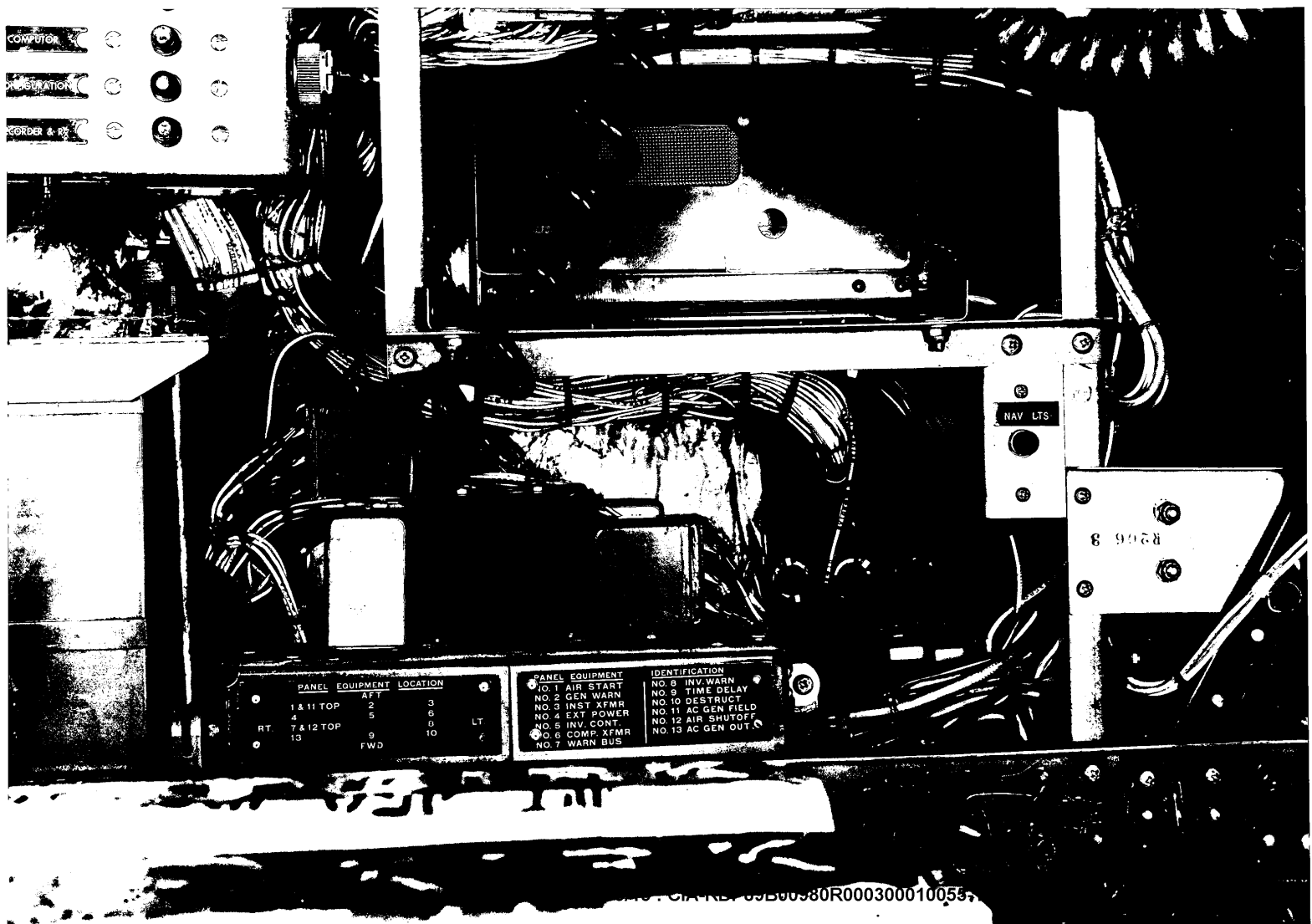
Project Engineer
Advanced Development Projects

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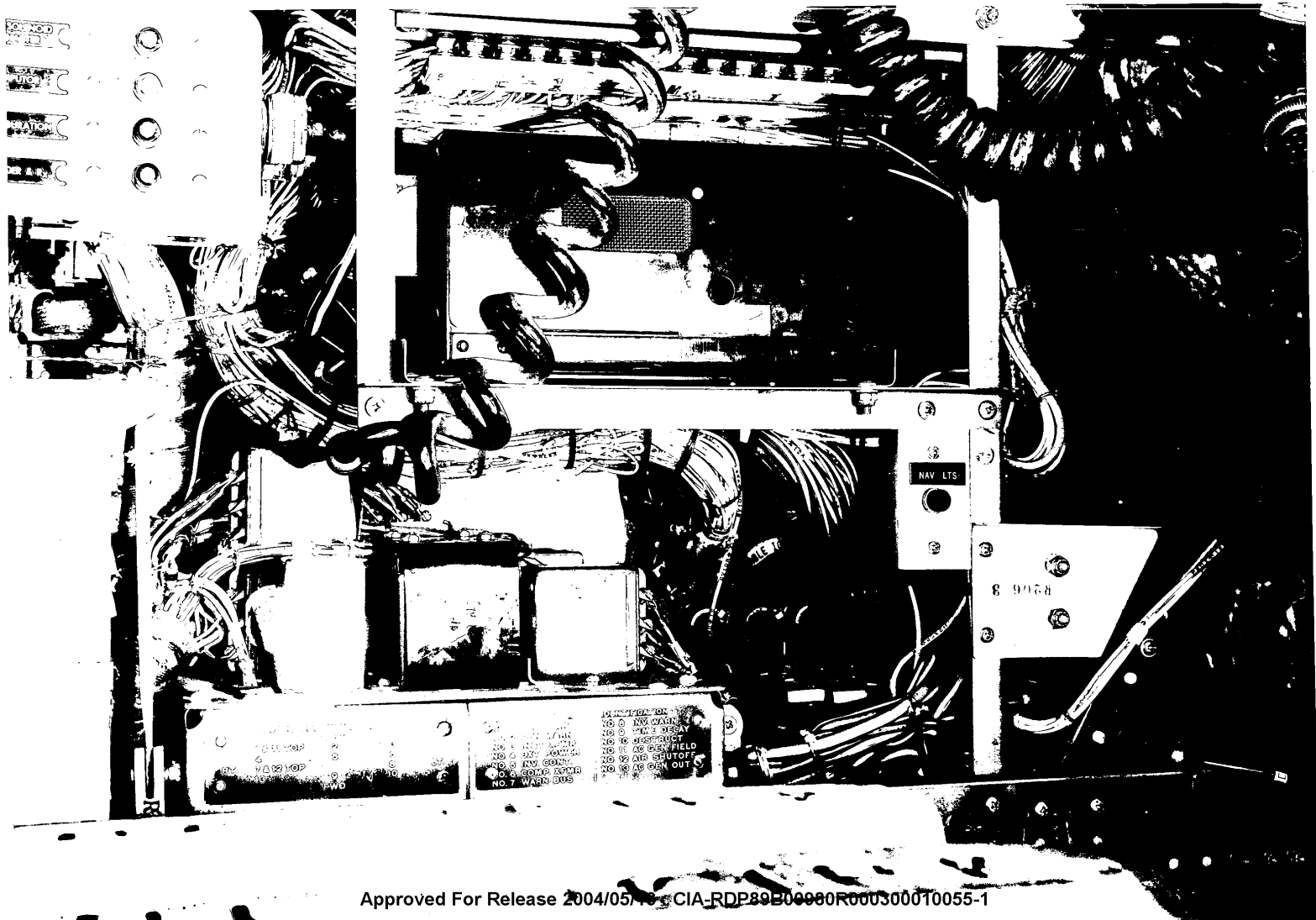
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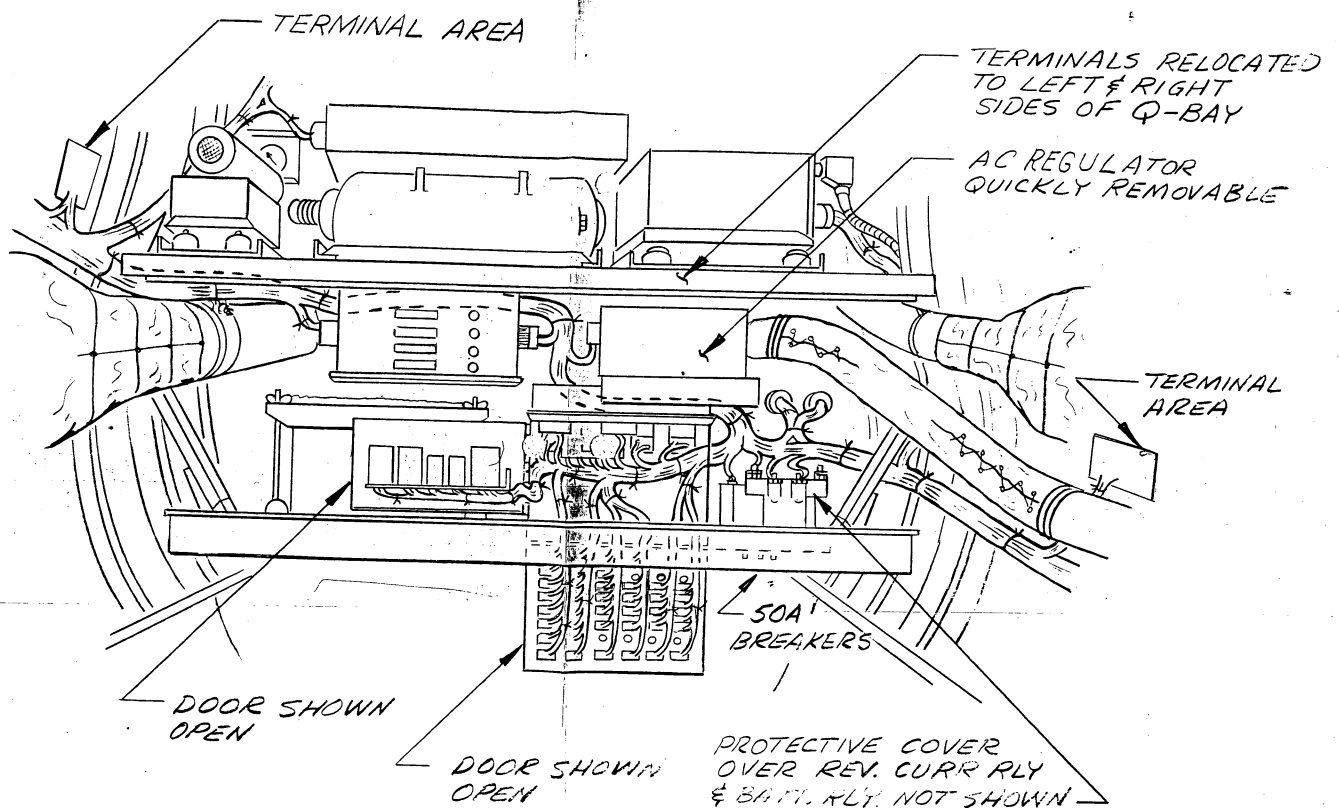
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